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JP7003486A: HIGH-PURITY COBALT AND PRODUCTION OF THEREOF

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Applicant(s): **JAPAN ENERGY CORP**
Issued/Filed Dates: **Jan. 6, 1995 / June 15, 1993**
Application Number: **JP1993000001673**
IPC Class: **C25C 001/08;**

Abstract: **Purpose:** To develop a technology for production of high-purity cobalt of a level above a 5N level contg. just a min. of impurities, such as nickel, iron, etc., used for a target material, etc.
Constitution: This process for production of the high-purity cobalt consists of stepwise refining of the cobalt by using electrolytic cells 1, 2, 3. An electrolyte is intermittently or continuously passed from the final stage toward a first stage and the electrolyte from the electrolytic cell 1 of the first stage is circulated to the final stage after mainly the nickel is removed therefrom by solvent extraction 4. Crude cobalt metal is used for an anode A1 of the first stage and cathodes C1, C2 obtd. in the previous stages are used for anodes A2, A3 of the respective stages after second and subsequent stages. The electrolyte is intermittently or continuously withdrawn and mainly the iron is removed therefrom by solvent extraction 6 in the final stage. the cathode C3 of the final stage is recovered and the recovered cathode C3 is subjected to vacuum dissolution. Heavy metals and radioactive elements are removed by the electrolysis and the solvent extraction effect and volatile alkaline metals are removed by the vacuum dissolution.
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Foreign References: **none**

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